TETRA TECH COFFEY

Mirvac Real Estate Pty Ltd

Confined Spaces Assessment

8 Chifley Square, Sydney NSW

6 August 2024
Project Ref: 754-SYDEN364426

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CONFINED SPACES ASSESSMENT

Prepared for
Mirvac Real Estate Pty Ltd

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EXECUTIVE SUMMARY

Tetra Tech Coffey Pty Ltd (Tetra Tech) was commissioned by Mirvac Real Estate Pty Ltd (the client) to conduct a confined spaces assessment at the office building, located at 8 Chifley Square, Sydney NSW 2000. Ben McCann of Tetra Tech carried out the audit on 1st August 2024. For the purpose of this audit, the principal definition of a confined space is that described in the *Work Health and Safety Regulation 2017 (NSW)*.

Identified confined spaces were not entered by personnel at the time of the assessment, therefore the risk assessments contained in this report are limited to general observations made. A more detailed task specific risk assessment is required prior to entering any confined spaces identified in this report.

Assessment Findings

The following findings are based on the site inspection, discussions with site personnel, and review of relevant documentation:

- A total of 21 confined spaces were identified at the site.
- 9 of the confined spaces were appropriately signposted. The following 12 confined spaces were not appropriately signposted:
    - 003 – Fuel tank, Level 32, Plant Room, diesel day tank.
    - 004 – Water tank, Level 30, Plant Room, chilled water tank.
    - 008 – Buffer tank, Level B2, carpark, adjacent space 33.
    - 009-010 – Grease traps x 2, Level B2, carpark, adjacent spaces 15 and 16.
    - 013 – Unknown pit, Level B2, carpark, adjacent space 32/33.
    - 014 – Unknown pit, Level B2, carpark, adjacent ramp.
    - 015 – Unknown pit, Level B2, carpark, space 8.
    - 016 – Fuel tank, Level B2, Diesel Tank Room, diesel tank.
    - 017 – Fan chamber, Level B2, Plant Room, carpark exhaust fan.
    - 019-020 – Sump pump pits x 2, Level B2, Stormwater Pump Room.
- All of the inspected confined spaces appeared to be appropriately secured from unauthorised access or within secure areas at the time of the assessment.
- The Mirvac Confined Space Entry Permit was made available for review. This included a requirement for the isolation of plant and services associated with confined spaces prior to any entry occurring.

Note: Refer to **Appendix A** for the confined space register and **Appendix C** for photographs.

Recommended Actions

The following actions are recommended, based on the above findings:

- Ensure a task specific risk assessment is conducted within each confined space prior to commencing any works.
- Install appropriate confined space signage on the following spaces:
    - 003 – Fuel tank, Level 32, Plant Room, diesel day tank.
    - 004 – Water tank, Level 30, Plant Room, chilled water tank.
    - 008 – Buffer tank, Level B2, carpark, adjacent space 33.
    - 009-010 – Grease traps x 2, Level B2, carpark, adjacent spaces 15 and 16.
    - 013 – Unknown pit, Level B2, carpark, adjacent space 32/33.
    - 014 – Unknown pit, Level B2, carpark, adjacent ramp.
    - 015 – Unknown pit, Level B2, carpark, space 8.
    - 016 – Fuel tank, Level B2, Diesel Tank Room, diesel tank.
    - 017 – Fan chamber, Level B2, Plant Room, carpark exhaust fan.
    - 019-020 – Sump pump pits x 2, Level B2, Stormwater Pump Room.

Ensure the signage complies with *AS 2865:2009 Confined Spaces*, Section 3.2.2. Refer to **Appendix D** for examples of confined space safety signage.

- Ensure all staff and contractors working within areas containing confined spaces at the site are provided with appropriate information, instruction and training to ensure they are able to work safely in these areas. It is recommended that this be managed within the site induction.
- Although it was not possible to access the spaces at the time of the inspection, they have been deemed to be a confined space (in order to take a precautionary approach) and should continue to be treated as such until confirmed as otherwise.
- Avoid entering the confined spaces if possible e.g. conduct cleaning/maintenance activities from outside etc.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any persons entering the confined space.
- Ensure task specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.
- All works and access in relation to confined spaces must be undertaken in accordance with the *Work Health and Safety Regulation 2017 (NSW),* the *Code of Practice: Confined Spaces (SafeWork NSW, 2019)* and A*S 2865:2009 Confined Spaces*.
- Tetra Tech is able to assist the client to implement the above recommended actions.

1. INTRODUCTION

Tetra Tech Coffey Pty Ltd (Tetra Tech) was commissioned by Mirvac Real Estate Pty Ltd (the client) to conduct a confined spaces assessment at the office building, located at 8 Chifley Square, Sydney NSW 2000. Ben McCann of Tetra Tech carried out the audit on 1st August 2024. For the purpose of this audit, the principal definition of a confined space is that described in the *Work Health and Safety Regulation 2017 (NSW)*.

Identified confined spaces were not entered by personnel at the time of the assessment, therefore the risk assessments contained in this report are limited to general observations made. A more detailed task specific risk assessment is required prior to entering any confined spaces identified in this report.

1.1 Site Description

The site consisted of a 32 level office tower covering approximately 20,000m^2 in area and constructed in 2018. The building was occupied at the time of the assessment.

2. SCOPE

The objective of the Confined Spaces Assessment was to identify and assess confined spaces at the site, and manage the associated risks to the health and safety of site occupants (including workers, students, visitors and contractors). The assessment included a physical inspection of accessible areas of the site, as well as discussions with relevant site personnel, and a review of relevant systems/documentation.

2.1 Inaccessible Areas

The following areas were not accessible during the inspection:

- Within confined spaces, voids and ceiling spaces.
- Within plant and machinery.
- Lift shafts and pits.
- Below cars and stored items.
- Occupied rooms and tenanted areas.
- Roof areas.

3. WHAT IS A CONFINED SPACE?

The *Work Health & Safety Regulation 2017 (NSW)* defines a confined space as an enclosed or partially enclosed space that:

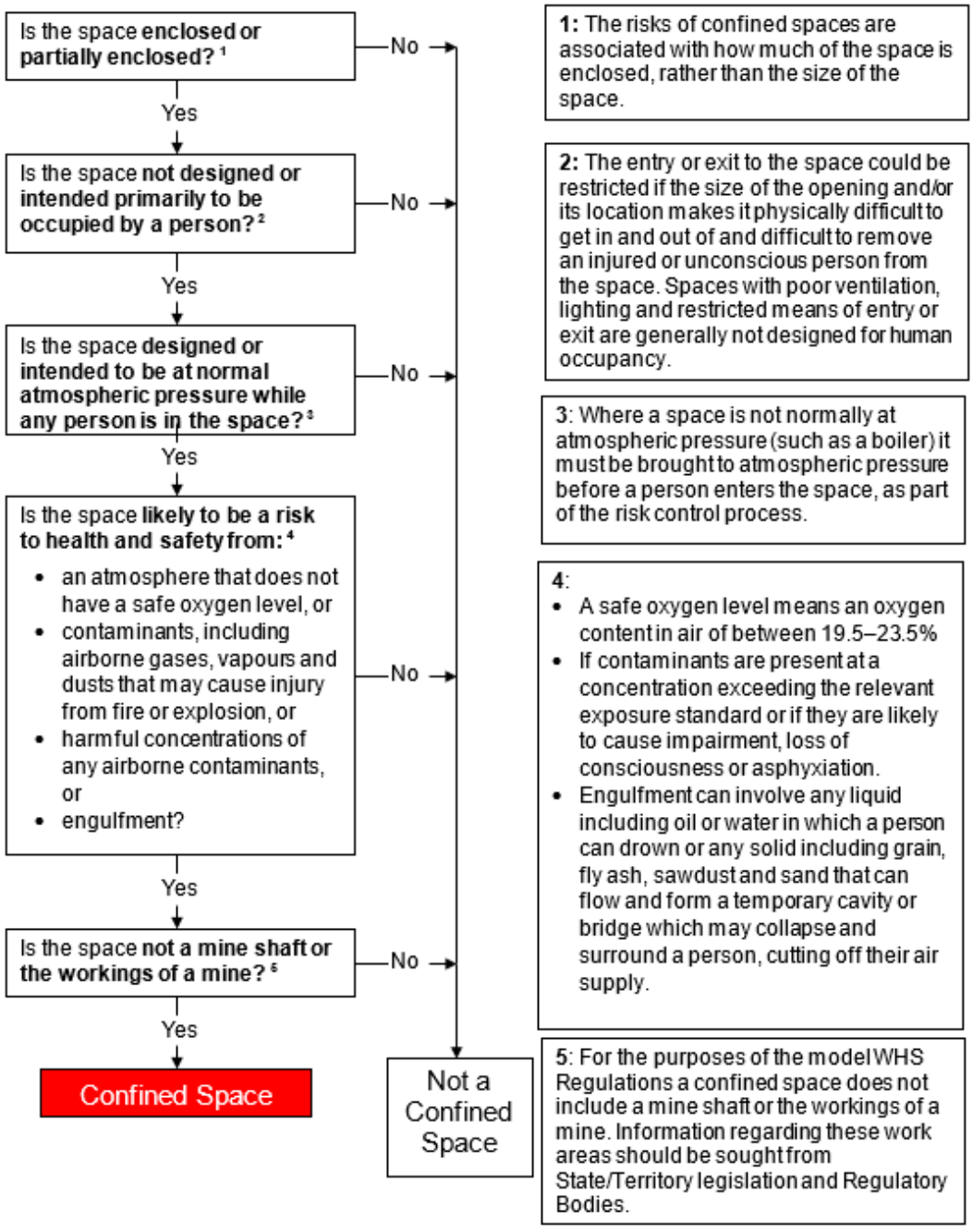
a) is not designed or intended primarily to be occupied by a person; and
b) is, or is designed or intended to be, at normal atmospheric pressure while any person is in the space, and
c) is or is likely to be a risk to health and safety from:
    i. an atmosphere that does not have a safe oxygen level; or
    ii. contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion, or
    iii. harmful concentrations of any airborne contaminants, or
    iv. engulfment.

Note: The above definition does not include a mine shaft or the workings of a mine.

Section 66 (1) of the *Work Health and Safety Regulations 2017 (NSW)* states that 'a PCBU must manage risks to health and safety associated with a confined space at a workplace including risks associated with entering, working in, on or in the vicinity of the confined space (including a risk of a person inadvertently entering the confined space'.

Section 62 (2) of the Regulations also state that the requirements relating to confined spaces within the Regulations refer to confined spaces that are under the PCBUs management or control. For this reason, confined spaces that are identified on site but that fall under the management or control of another PCBU have not been included in this report. Examples of such confined spaces include storm water drains and sewer pits (managed by the local water authority), and underground electrical substations (managed by the local power authority).

Further explanation of a confined space definition is explained in the figure below:



Source: Compliance Code: Confined Spaces 2019

4. RISK ASSESSMENT

Risk assessments have been conducted for each confined space identified on site. The risk assessments considered the nature of the confined space, including its location, frequency of entry, work performed, the nature of the potential hazards present and the controls currently in place. Each identified potential hazard was risk assessed, based on the likelihood of an event occurring, and the consequence or outcome of that event in general terms. An overall risk rating of Low, Medium, High, Very High or Extreme was then assigned to each hazard using the provided risk assessment matrix (refer to Risk Matrix below). The assessment of the risk is a subjective assessment and is to be used for guidance purposes in relation to selecting and implementing corrective actions.

Risk Matrix					
LIKELIHOOD	**CONSEQUENCE**				
	Insignificant (No injuries)	**Minor** (First aid only)	**Moderate** (Medical treatment)	**Major** (Extensive injuries, loss of production)	**Catastrophic** (Fatality / permanent disability)
Almost Certain (Expected in most circumstances)	Medium	High	Very High	Extreme	Extreme
Likely (Will probably occur in most circumstances)	Medium	High	Very High	Extreme	Extreme
Possible (Might occur at some time)	Low	Medium	High	Very High	Extreme
Unlikely (Not likely to occur)	Low	Low	Medium	High	Very High
Rare (May occur only in exceptional circumstances)	Low	Low	Medium	High	High

Where the hazards associated with work in particular confined spaces are similar in nature, a group risk assessment has been prepared. Separate space specific risk assessments will be prepared for any confined spaces identified as having unique hazards or risks that are different to the group risk assessment.

Refer to **Appendix B** for confined space risk assessments.

5. FINDINGS

The following findings are based on the site inspection, discussions with site personnel, and review of relevant documentation:

- A total of 21 confined spaces were identified at the site.
- 9 of the confined spaces were appropriately signposted. The following 12 confined spaces were not appropriately signposted:
    - 003 – Fuel tank, Level 32, Plant Room, diesel day tank.
    - 004 – Water tank, Level 30, Plant Room, chilled water tank.
    - 008 – Buffer tank, Level B2, carpark, adjacent space 33.
    - 009-010 – Grease traps x 2, Level B2, carpark, adjacent spaces 15 and 16.
    - 013 – Unknown pit, Level B2, carpark, adjacent space 32/33.
    - 014 – Unknown pit, Level B2, carpark, adjacent ramp.
    - 015 – Unknown pit, Level B2, carpark, space 8.
    - 016 – Fuel tank, Level B2, Diesel Tank Room, diesel tank.
    - 017 – Fan chamber, Level B2, Plant Room, carpark exhaust fan.
    - 019-020 – Sump pump pits x 2, Level B2, Stormwater Pump Room.
- All of the inspected confined spaces appeared to be appropriately secured from unauthorised access or within secure areas at the time of the assessment.
- The Mirvac Confined Space Entry Permit was made available for review. This included a requirement for the isolation of plant and services associated with confined spaces prior to any entry occurring.

Note: Refer to **Appendix A** for the confined space register and **Appendix C** for photographs.

6. RECOMMENDED ACTIONS

The following actions are recommended, based on the above findings:

- Ensure a task specific risk assessment is conducted within each confined space prior to commencing any works.
- Install appropriate confined space signage on the following spaces:
    - 003 – Fuel tank, Level 32, Plant Room, diesel day tank.
    - 004 – Water tank, Level 30, Plant Room, chilled water tank.
    - 008 – Buffer tank, Level B2, carpark, adjacent space 33.
    - 009-010 – Grease traps x 2, Level B2, carpark, adjacent spaces 15 and 16.
    - 013 – Unknown pit, Level B2, carpark, adjacent space 32/33.
    - 014 – Unknown pit, Level B2, carpark, adjacent ramp.
    - 015 – Unknown pit, Level B2, carpark, space 8.
    - 016 – Fuel tank, Level B2, Diesel Tank Room, diesel tank.
    - 017 – Fan chamber, Level B2, Plant Room, carpark exhaust fan.
    - 019-020 – Sump pump pits x 2, Level B2, Stormwater Pump Room.

    Ensure the signage complies with *AS 2865:2009 Confined Spaces*, Section 3.2.2. Refer to **Appendix D** for examples of confined space safety signage.
- Ensure all staff and contractors working within areas containing confined spaces at the site are provided with appropriate information, instruction and training to ensure they are able to work safely in these areas. It is recommended that this be managed within the site induction.

- Although it was not possible to access the spaces at the time of the inspection, they have been deemed to be a confined space (in order to take a precautionary approach) and should continue to be treated as such until confirmed as otherwise.
- Avoid entering the confined spaces if possible e.g. conduct cleaning/maintenance activities from outside etc.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any persons entering the confined space.
- Ensure task specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.
- All works and access in relation to confined spaces must be undertaken in accordance with the *Work Health and Safety Regulation 2017 (NSW),* the *Code of Practice: Confined Spaces (SafeWork NSW, 2019)* and A*S 2865:2009 Confined Spaces*.
- **Tetra Tech is able to assist the client to implement the above recommended actions.**

7. REFERENCES

- *Work Health and Safety Act 2011 (NSW).*
- *Work Health and Safety Regulation 2017 (NSW).*
- *Code of Practice: Confined Spaces (SafeWork NSW, 2019).*
- *Australian Standard 2865:2009 Confined Spaces.*

8. LIMITATIONS

This report and the associated services performed by Tetra Tech are in accordance with the scope of services set out in the contract between Tetra Tech and the Client. The scope of services was defined by the requests of the Client, by the time and budgetary constraints imposed by the Client, and by the availability of access to the site.

Tetra Tech derived the data in this report primarily from visual inspections, examination of available records, and interviews with individuals with relevant information about the site. In preparing this report, Tetra Tech has relied upon, and presumed accurate, certain information (or absence thereof) provided by government authorities, the Client and others identified herein. Except as otherwise stated in the report, Tetra Tech has not attempted to verify the accuracy or completeness of any such information.

No warranty, undertaking, or guarantee, whether expressed or implied, is made with respect to the data reported or to the findings, observations, and recommendations expressed in this report. Furthermore, such data, findings, observations, and recommendations are based solely upon existence at the time of the assessment. The passage of time, manifestation of latent conditions or impacts of future events (e.g. changes in legislation, scientific knowledge, land uses, etc.) may require further investigation at the site with subsequent data analysis and re-evaluation of the findings, observations, and recommendations expressed in this report.

This report has been prepared on behalf of and for the exclusive use of the Client, and is subject to and issued in connection with the provisions of the agreement between Tetra Tech and the Client. Tetra Tech accepts no liability or responsibility whatsoever and expressly disclaims any responsibility for or in respect of any use of or reliance upon this report by any third party or parties. It is the responsibility of the Client to accept if the Client so chooses any recommendations contained within and implement them in an appropriate, suitable and timely manner.

APPENDIX A: CONFINED SPACES REGISTER

Confined Spaces Register								
Space ID	Type	Level	Location / Comments	Secure	Signage	Dimensions	Risk Assessment	Photo
001	Water Tank	33	Cooling Tower Area, potable tank	Yes	Yes	25m^3	A	01
002	Water Tank	33	Cooling Tower Area	Yes	Yes	80m^3	A	02
003	Fuel Tank	32	Plant Room, diesel day tank	Yes	**No**	2m^3	B	03
004	Water Tank	30	Plant Room, chilled water tank	Yes	**No**	12m^3	A	04
005	Water Tank	4	Plant Room	Yes	Yes	65m^3	A	05
006	Water Tank	3	Plant Room, hydrant tank	Yes	Yes	25m^3	A	06
007	Water Tank	3	Plant Room	Yes	Yes	22m^3	A	07
008	Buffer Tank	B2	Carpark, adjacent space 33	Yes	**Not clear**	Unknown	C	08
009-010	Grease Traps x 2	B2	Carpark, adjacent spaces 15 and 16	Yes	**No**	Unknown	D	09
011	Sewer Pit	B2	Carpark, adjacent spaces 15 and 16	Yes	Yes	Unknown	E	10
012	Water Tank	B2	Carpark, adjacent spaces 24-28, underground sprinkler tank (4 hatches)	Yes	Yes	Unknown	A	11
013	Unknown Pit	B2	Carpark, adjacent space 32/33	Yes	**No**	Unknown	F	12
014	Unknown Pit	B2	Carpark, adjacent ramp	Yes	**No**	Unknown	F	13
015	Unknown Pit	B2	Carpark, space 8	Yes	**No**	Unknown	F	14
016	Fuel Tank (Large)	B2	Diesel Tank Room, diesel tank	Yes	**No**	11m^3	G	15
017	Fan Chamber	B2	Plant Room, carpark exhaust fan	Yes	**No**	6m^3	H	16

Confined Spaces Register								
Space ID	Type	Level	Location / Comments	Secure	Signage	Dimensions	Risk Assessment	Photo
018	Water Tank	B2	Stormwater Pump Room	Yes	Yes	$9m^3$	A	17
019-020	Sump Pump Pit x 2	B2	Stormwater Pump Room	Yes	**No**	$9m^3$	I	18
021	Unknown Pit	B3	Sprinkler Pump Room	Yes	Yes	Unknown	F	19

APPENDIX B: CONFINED SPACE RISK ASSESSMENTS

Risk Assessment A: Water Tank		
Does the space meet the requirements of a Confined Space? (If the answer to A, B and at least one part of C is yes, then the space is a confined space and requires a risk assessment).		**YES**
A. Is the space designed or intended primarily not to be occupied by a person?		YES
B. Is the space designed or intended to be, at normal atmospheric pressure while any person is in the space?		YES
C. Is the space likely to be a risk to health and safety from:		
• an atmosphere that does not have a safe oxygen level?		YES
• contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion?		NO
• harmful concentrations of any airborne contaminants?		NO
• engulfment?		YES
Works to be completed:	Cleaning and maintenance activities.	
Comments:	Access to space is restricted. No access gained during assessment.	
Hazard Types	**Risk Rating**	**Recommended Actions**
Restricted entry and egress in an emergency	VH	Wear a safety harness and remain connected to a lifeline at all times. Ensure the standby person remains in constant contact with person(s) entering the space.
Oxygen deficiency whilst work in progress	E	Monitor the atmosphere within the space prior to entering. Only enter the space if oxygen levels are within the safe range (19.5% to 23.5%). Ventilate the space if required. Continually monitor the atmosphere within the space during entry.
Build-up or excess of vapours such as hydrogen sulphide (H_2S) or carbon monoxide (CO) to concentrations above the workplace exposure standards (WES)	L	No action required.
Build-up of organic vapours to within explosive limits	L	No action required.
Airborne dust concentrations above the WES	L	No action required.
Radiation (non-ionising and ionising)	L	No action required.
Noise generated at levels above 85 dB(A)	M	Isolate machinery. Wear appropriate PPE (e.g. hearing protection).
Uncontrolled introduction of substances (e.g. steam, water, gases etc.)	VH	Isolate all inflow pipes into the space.
Engulfment	E	Isolate all inflow pipes into the space. Wear a safety harness and remain connected to a lifeline at all times.

Hazard Types	Risk Rating	Recommended Actions
Manual handling of covers, lowering equipment into pits	M	Use a winch or rope pulley system to lower equipment into the tank.
Mechanical hazards (e.g. entanglement, crushing, cutting, etc.)	L	No action required.
Skin contact with hazardous substances and surface contaminants	L	No action required.
Slips and trips	M	Wear slip resistant boots.
Falls from height	VH	Wear a safety harness and remain connected to a lifeline at all times.
Electrical hazards	M	Portable electrical equipment should be protected through an RCD, located outside of the space.
Biological hazards (e.g. E-coli)	M	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear). Wash hands and face after exiting the space.
Lack of lighting	H	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	L	No action required.

General Recommendations

- Avoid entering the confined space if possible e.g. conduct cleaning activities from outside etc.
- Ensure access to the confined space remains secure at all times.
- Only authorised personnel are to access the confined space.
- All works and access in relation to confined spaces must be undertaken in accordance with AS 2865-2009.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any persons entering the confined space.
- Ensure contractors are appropriately trained to undertake confined space entry and standby duties.
- Ensure site specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.
- Ensure contractor safe work method statement (SWMS) addresses working at heights issues.
- Ensure suitable PPE is available and appropriately maintained.
- Ensure a task specific risk assessment is conducted within the space prior to commencing any works.
- Although it was not possible to access the space at the time of the assessment, it has been deemed to be a confined space (in order to take a precautionary approach) and should continue to be treated as such until confirmed as otherwise.

Risk Assessment B: Fuel Tank	
Does the space meet the requirements of a Confined Space? (If the answer to A, B and at least one part of C is yes, then the space is a confined space and requires a risk assessment).	**YES**
A. Is the space designed or intended primarily not to be occupied by a person?	YES
B. Is the space designed or intended to be, at normal atmospheric pressure while any person is in the space?	YES
C. Is the space likely to be a risk to health and safety from:	
• an atmosphere that does not have a safe oxygen level?	YES
• contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion?	YES
• harmful concentrations of any airborne contaminants?	YES
• engulfment?	YES
Works to be completed:	Cleaning and maintenance activities.
Comments:	Access to space is restricted. No access gained during assessment.

Hazard Types	Risk Rating	Recommended Actions
Restricted entry and egress in an emergency	VH	Wear a safety harness and remain connected to a lifeline at all times. Ensure the standby person remains in constant contact with person(s) entering the space.
Oxygen deficiency whilst work in progress	VH	Monitor the atmosphere within the space prior to entering. Only enter the space if oxygen levels are within the safe range (19.5% to 23.5%). Ventilate the space if required. Continually monitor the atmosphere within the space during entry.
Build-up or excess of vapours such as hydrogen sulphide (H_2S) or carbon monoxide (CO) to concentrations above the workplace exposure standards (WES)	VH	Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Continually monitor the atmosphere within the space during entry.
Build-up of organic vapours to within explosive limits	E	Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Only enter the space if the concentration of any flammable vapours is less than 5% of its lower explosive limit. Continually monitor the atmosphere within the space during entry. Ensure no ignition sources are located within or introduced into the space.
Airborne dust concentrations above the WES	L	No action required.
Radiation (non-ionising and ionising)	L	No action required.
Noise generated at levels above 85 dB(A)	M	Wear appropriate hearing protection PPE when working in plant rooms.
Uncontrolled introduction of substances (e.g. steam, water, gases etc.)	VH	Isolate all inflow pipes into the space. Ensure no vehicles operate in the vicinity of the entry.

Hazard Types	Risk Rating	Recommended Actions
Engulfment	VH	Isolate all inflow pipes into the space. Wear a safety harness and remain connected to a lifeline at all times.
Manual handling of covers, lowering equipment into pits	M	Ensure a two-person lift or lifting device is used when lifting or removing covers. Use a winch to lower equipment into the space.
Mechanical hazards (e.g. entanglement, crushing, cutting, etc.)	M	Isolate all plant within the space.
Skin contact with hazardous substances and surface contaminants	H	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear).
Slips and trips	M	Wear slip resistant boots.
Falls from height	H	Use a working platform to access the tank hatch.
Electrical hazards	M	Portable electrical equipment should be protected through an RCD, located outside of the space.
Biological hazards (e.g. E-coli)	L	No action required.
Lack of lighting	M	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	L	No action required.

General Recommendations

- Avoid entering the confined space if possible e.g. conduct cleaning activities from outside etc.
- Ensure access to the confined space remains secure at all times.
- Only authorised personnel are to access the confined space.
- All works and access in relation to confined spaces must be undertaken in accordance with AS 2865-2009.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any persons entering the confined space.
- Ensure contractors are appropriately trained to undertake confined space entry and standby duties.
- Ensure site specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.
- Ensure contractor safe work method statement (SWMS) addresses working at heights and traffic management issues.
- Ensure suitable PPE is available and appropriately maintained.
- Ensure a task specific risk assessment is conducted within the space prior to commencing any works.
- Although it was not possible to access the space at the time of the assessment, it has been deemed to be a confined space (in order to take a precautionary approach) and should continue to be treated as such until confirmed as otherwise.

Risk Assessment C: Buffer Tank		
Does the space meet the requirements of a Confined Space? (If the answer to A, B and at least one part of C is yes, then the space is a confined space and requires a risk assessment).		**YES**
A. Is the space designed or intended primarily not to be occupied by a person?		YES
B. Is the space designed or intended to be, at normal atmospheric pressure while any person is in the space?		YES
C. Is the space likely to be a risk to health and safety from:		
• an atmosphere that does not have a safe oxygen level?		YES
• contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion?		NO
• harmful concentrations of any airborne contaminants?		NO
• engulfment?		YES
Works to be completed:	Cleaning and maintenance activities.	
Comments:	Access to space is restricted. No access gained during assessment.	
Hazard Types	**Risk Rating**	**Recommended Actions**
Restricted entry and egress in an emergency	E	Wear a safety harness and remain connected to a lifeline at all times. Ensure the standby person remains in constant contact with person(s) entering the space.
Oxygen deficiency whilst work in progress	E	Monitor the atmosphere within the space prior to entering. Only enter the space if oxygen levels are within the safe range (19.5% to 23.5%). Ventilate the space if required. Continually monitor the atmosphere within the space during entry.
Build-up or excess of vapours such as hydrogen sulphide (H_2S) or carbon monoxide (CO) to concentrations above the workplace exposure standards (WES)	L	No action required.
Build-up of organic vapours to within explosive limits	L	No action required.
Airborne dust concentrations above the WES	L	No action required.
Radiation (non-ionising and ionising)	L	No action required.
Noise generated at levels above 85 dB(A)	L	No action required.
Uncontrolled introduction of substances (e.g. steam, water, gases etc.)	VH	Isolate all inflow pipes into the space.
Engulfment	E	Isolate all inflow pipes into the space. Wear a safety harness and remain connected to a lifeline at all times.

Hazard Types	Risk Rating	Recommended Actions
Manual handling of covers, lowering equipment into pits	M	Ensure a two-person lift or lifting device is used when lifting or removing covers. Use a winch to lower equipment into the space.
Mechanical hazards (e.g. entanglement, crushing, cutting, etc.)	L	No action required.
Skin contact with hazardous substances and surface contaminants	L	No action required.
Slips and trips	M	Wear slip resistant boots.
Falls from height	VH	Wear a safety harness and remain connected to a lifeline at all times.
Electrical hazards	M	Portable electrical equipment should be protected through an RCD, located outside of the space.
Biological hazards (e.g. E-coli)	M	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear). Wash hands and face after exiting the space.
Lack of lighting	H	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	M	Test air and surface temperatures prior to entering space. Wear appropriate protective clothing and limit time in space if high temperatures are recorded.

General Recommendations

- Avoid entering the confined space if possible e.g. conduct cleaning activities from outside etc.
- Ensure access to the confined space remains secure at all times.
- Only authorised personnel are to access the confined space.
- All works and access in relation to confined spaces must be undertaken in accordance with AS 2865-2009.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any persons entering the confined space.
- Ensure contractors are appropriately trained to undertake confined space entry and standby duties.
- Ensure site specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.
- Ensure contractor safe work method statement (SWMS) addresses working at heights and traffic management issues.
- Ensure suitable PPE is available and appropriately maintained.
- Ensure a task specific risk assessment is conducted within the space prior to commencing any works.
- Although it was not possible to access the space at the time of the assessment, it has been deemed to be a confined space (in order to take a precautionary approach) and should continue to be treated as such until confirmed as otherwise.

Risk Assessment D: Grease Trap	
Does the space meet the requirements of a Confined Space? (If the answer to A, B and at least one part of C is yes, then the space is a confined space and requires a risk assessment).	**YES**
A. Is the space designed or intended primarily not to be occupied by a person?	YES
B. Is the space designed or intended to be, at normal atmospheric pressure while any person is in the space?	YES
C. Is the space likely to be a risk to health and safety from:	
• an atmosphere that does not have a safe oxygen level?	YES
• contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion?	YES
• harmful concentrations of any airborne contaminants?	YES
• engulfment?	YES

Works to be completed:	Maintenance and inspection activities.
Comments:	Access to space is restricted. No access gained during assessment.

Hazard Types	**Risk Rating**	**Recommended Actions**
Restricted entry and egress in an emergency	VH	Wear a safety harness and remain connected to a lifeline at all times. Ensure the standby person remains in constant contact with person(s) entering the space.
Oxygen deficiency whilst work in progress	E	Monitor the atmosphere within the space prior to entering. Only enter the space if oxygen levels are within the safe range (19.5% to 23.5%). Ventilate the space if required. Continually monitor the atmosphere within the space during entry.
Build-up or excess of vapours such as hydrogen sulphide (H_2S) or carbon monoxide (CO) to concentrations above the workplace exposure standards (WES)	VH	Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Continually monitor the atmosphere within the space during entry.
Build-up of organic vapours to within explosive limits	VH	Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Only enter the space if the concentration of any flammable vapours is less than 5% of its lower explosive limit. Continually monitor the atmosphere within the space during entry. Ensure no ignition sources are located within or introduced into the space.
Airborne dust concentrations above the WES	L	No action required.
Radiation (non-ionising and ionising)	L	No action required.
Noise generated at levels above 85 dB(A)	L	No action required.
Uncontrolled introduction of substances (e.g. steam, water, gases etc.)	E	Isolate all services within the space. Ensure no vehicles operate in the vicinity of the entry. Ensure the standby person is monitoring external weather conditions and any other factors that could impact the confined space.

Hazard Types	Risk Rating	Recommended Actions
Engulfment	E	Isolate all inflow pipes into the space. Wear a safety harness and remain connected to a lifeline at all times.
Manual handling of covers, lowering equipment into pits	M	Ensure a two-person lift or lifting device is used when lifting or removing covers. Use a winch to lower equipment into the space.
Mechanical hazards (e.g. entanglement, crushing, cutting, etc.)	L	No action required.
Skin contact with hazardous substances and surface contaminants	M	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear).
Slips and trips	H	Wear slip resistant boots.
Falls from height	VH	Wear a safety harness and remain connected to a lifeline at all times.
Electrical hazards	M	Portable electrical equipment should be protected through an RCD, located outside of the space.
Biological hazards (e.g. E-coli)	H	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear). Wash hands and face after exiting the space.
Lack of lighting	H	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	L	No action required.

General Recommendations

- Avoid entering the confined space if possible e.g. conduct cleaning activities from outside etc.
- Ensure access to the confined space remains secure at all times.
- Only authorised personnel are to access the confined space.
- All works and access in relation to confined spaces must be undertaken in accordance with AS 2865-2009.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any persons entering the confined space.
- Ensure contractors are appropriately trained to undertake confined space entry and standby duties.
- Ensure site specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.
- Ensure contractor safe work method statement (SWMS) addresses working at heights and traffic management issues.
- Ensure suitable PPE is available and appropriately maintained.
- Ensure a task specific risk assessment is conducted within the space prior to commencing any works.
- Although it was not possible to access the space at the time of the assessment, it has been deemed to be a confined space (in order to take a precautionary approach) and should continue to be treated as such until confirmed as otherwise.

Risk Assessment E: Sewer Pit		
Does the space meet the requirements of a Confined Space? (If the answer to A, B and at least one part of C is yes, then the space is a confined space and requires a risk assessment).		**YES**
A. Is the space designed or intended primarily not to be occupied by a person?		YES
B. Is the space designed or intended to be, at normal atmospheric pressure while any person is in the space?		YES
C. Is the space likely to be a risk to health and safety from: • an atmosphere that does not have a safe oxygen level? • contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion? • harmful concentrations of any airborne contaminants? • engulfment?		 YES YES YES YES
Works to be completed:	Maintenance and inspection activities.	
Comments:	Access to space is restricted. No access gained during assessment.	
Hazard Types	**Risk Rating**	**Recommended Actions**
Restricted entry and egress in an emergency	E	Wear a safety harness and remain connected to a lifeline at all times. Ensure the standby person remains in constant contact with person(s) entering the space.
Oxygen deficiency whilst work in progress	E	Monitor the atmosphere within the space prior to entering. Only enter the space if oxygen levels are within the safe range (19.5% to 23.5%). Ventilate the space if required. Continually monitor the atmosphere within the space during entry.
Build-up or excess of vapours such as hydrogen sulphide (H_2S) or carbon monoxide (CO) to concentrations above the workplace exposure standards (WES)	E	Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Continually monitor the atmosphere within the space during entry.
Build-up of organic vapours to within explosive limits	VH	Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Only enter the space if the concentration of any flammable vapours is less than 5% of its lower explosive limit. Continually monitor the atmosphere within the space during entry. Ensure no ignition sources are located within or introduced into the space.
Airborne dust concentrations above the WES	L	No action required.
Radiation (non-ionising and ionising)	L	No action required.
Noise generated at levels above 85 dB(A)	L	No action required.
Uncontrolled introduction of substances (e.g. steam, water, gases etc.)	E	Isolate all services within the space. Ensure no vehicles operate in the vicinity of the entry. Ensure the standby person is monitoring external weather conditions and any other factors that could impact the confined space.

Hazard Types	Risk Rating	Recommended Actions
Engulfment	E	Isolate all inflow pipes into the space. Wear a safety harness and remain connected to a lifeline at all times.
Manual handling of covers, lowering equipment into pits	M	Ensure a two-person lift or lifting device is used when lifting or removing covers. Use a winch to lower equipment into the space.
Mechanical hazards (e.g. entanglement, crushing, cutting, etc.)	L	No action required.
Skin contact with hazardous substances and surface contaminants	H	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear).
Slips and trips	H	Wear slip resistant boots.
Falls from height	VH	Wear a safety harness and remain connected to a lifeline at all times.
Electrical hazards	M	Portable electrical equipment should be protected through an RCD, located outside of the space.
Biological hazards (e.g. E-coli)	H	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear). Wash hands and face after exiting the space.
Lack of lighting	H	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	L	No action required.

General Recommendations

- Avoid entering the confined space if possible e.g. conduct cleaning activities from outside etc.
- Ensure access to the confined space remains secure at all times.
- Only authorised personnel are to access the confined space.
- All works and access in relation to confined spaces must be undertaken in accordance with AS 2865-2009.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any persons entering the confined space.
- Ensure contractors are appropriately trained to undertake confined space entry and standby duties.
- Ensure site specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.
- Ensure contractor safe work method statement (SWMS) addresses traffic management and working at heights issues.
- Ensure suitable PPE is available and appropriately maintained.
- Ensure a task specific risk assessment is conducted within the space prior to commencing any works.
- Although it was not possible to access the space at the time of the assessment, it has been deemed to be a confined space (in order to take a precautionary approach) and should continue to be treated as such until confirmed as otherwise.

Risk Assessment F: Unknown Pit		
Does the space meet the requirements of a Confined Space? (If the answer to A, B and at least one part of C is yes, then the space is a confined space and requires a risk assessment).		**YES**
A. Is the space designed or intended primarily not to be occupied by a person?		YES
B. Is the space designed or intended to be, at normal atmospheric pressure while any person is in the space?		YES
C. Is the space likely to be a risk to health and safety from: • an atmosphere that does not have a safe oxygen level? • contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion? • harmful concentrations of any airborne contaminants? • engulfment?		 YES YES YES YES
Works to be completed:	Maintenance and inspection activities.	
Comments:	Access to space is restricted. No access gained during assessment.	
Hazard Types	**Risk Rating**	**Recommended Actions**
Restricted entry and egress in an emergency	E	Wear a safety harness and remain connected to a lifeline at all times. Ensure the standby person remains in constant contact with person(s) entering the space.
Oxygen deficiency whilst work in progress	E	Monitor the atmosphere within the space prior to entering. Only enter the space if oxygen levels are within the safe range (19.5% to 23.5%). Ventilate the space if required. Continually monitor the atmosphere within the space during entry.
Build-up or excess of vapours such as hydrogen sulphide (H_2S) or carbon monoxide (CO) to concentrations above the workplace exposure standards (WES)	E	Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Continually monitor the atmosphere within the space during entry.
Build-up of organic vapours to within explosive limits	E	Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Only enter the space if the concentration of any flammable vapours is less than 5% of its lower explosive limit. Continually monitor the atmosphere within the space during entry. Ensure no ignition sources are located within or introduced into the space.
Airborne dust concentrations above the WES	L	No action required.
Radiation (non-ionising and ionising)	L	No action required.
Noise generated at levels above 85 dB(A)	M	Isolate machinery. Wear appropriate PPE (e.g. hearing protection)
Uncontrolled introduction of substances (e.g. steam, water, gases etc.)	E	Isolate all services within the space. Ensure no vehicles operate in the vicinity of the entry. Ensure the standby person is monitoring external weather conditions and any other factors that could impact the confined space.

Hazard Types	Risk Rating	Recommended Actions
Engulfment	E	Isolate all inflow pipes into the space. Wear a safety harness and remain connected to a lifeline at all times.
Manual handling of covers, lowering equipment into pits	M	Ensure a two-person lift or lifting device is used when lifting or removing covers. Use a winch to lower equipment into the space.
Mechanical hazards (e.g. entanglement, crushing, cutting, etc.)	M	Isolate all plant within the space.
Skin contact with hazardous substances and surface contaminants	H	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear).
Slips and trips	H	Wear slip resistant boots.
Falls from height	VH	Wear a safety harness and remain connected to a lifeline at all times.
Electrical hazards	M	Portable electrical equipment should be protected through an RCD, located outside of the space.
Biological hazards (e.g. E-coli)	H	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear). Wash hands and face after exiting the space.
Lack of lighting	H	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	L	No action required.

General Recommendations

- Avoid entering the confined space if possible e.g. conduct cleaning activities from outside etc.
- Ensure access to the confined space remains secure at all times.
- Only authorised personnel are to access the confined space.
- All works and access in relation to confined spaces must be undertaken in accordance with AS 2865-2009.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any persons entering the confined space.
- Ensure contractors are appropriately trained to undertake confined space entry and standby duties.
- Ensure site specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.
- Ensure contractor safe work method statement (SWMS) addresses working at heights issues.
- Ensure suitable PPE is available and appropriately maintained.
- Ensure a task specific risk assessment is conducted within the space prior to commencing any works.
- Although it was not possible to access the space at the time of the assessment, it has been deemed to be a confined space (in order to take a precautionary approach) and should continue to be treated as such until confirmed as otherwise.

Risk Assessment G: Fuel Tank (Large)	
Does the space meet the requirements of a Confined Space? (If the answer to A, B and at least one part of C is yes, then the space is a confined space and requires a risk assessment).	**YES**
A. Is the space designed or intended primarily not to be occupied by a person?	YES
B. Is the space designed or intended to be, at normal atmospheric pressure while any person is in the space?	YES
C. Is the space likely to be a risk to health and safety from:	
• an atmosphere that does not have a safe oxygen level?	YES
• contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion?	YES
• harmful concentrations of any airborne contaminants?	YES
• engulfment?	YES
Works to be completed:	Cleaning and maintenance activities.
Comments:	Access to space is restricted. No access gained during assessment.

Hazard Types	Risk Rating	Recommended Actions
Restricted entry and egress in an emergency	E	Wear a safety harness and remain connected to a lifeline at all times. Ensure the standby person remains in constant contact with person(s) entering the space.
Oxygen deficiency whilst work in progress	E	Monitor the atmosphere within the space prior to entering. Only enter the space if oxygen levels are within the safe range (19.5% to 23.5%). Ventilate the space if required. Continually monitor the atmosphere within the space during entry.
Build-up or excess of vapours such as hydrogen sulphide (H_2S) or carbon monoxide (CO) to concentrations above the workplace exposure standards (WES)	E	Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Continually monitor the atmosphere within the space during entry.
Build-up of organic vapours to within explosive limits	E	Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Only enter the space if the concentration of any flammable vapours is less than 5% of its lower explosive limit. Continually monitor the atmosphere within the space during entry. Ensure no ignition sources are located within or introduced into the space.
Airborne dust concentrations above the WES	L	No action required.
Radiation (non-ionising and ionising)	L	No action required.
Noise generated at levels above 85 dB(A)	L	No action required.
Uncontrolled introduction of substances (e.g. steam, water, gases etc.)	VH	Isolate all inflow pipes into the space. Ensure no vehicles operate in the vicinity of the entry.

Hazard Types	Risk Rating	Recommended Actions
Engulfment	E	Isolate all inflow pipes into the space. Wear a safety harness and remain connected to a lifeline at all times.
Manual handling of covers, lowering equipment into pits	M	Ensure a two-person lift or lifting device is used when lifting or removing covers. Use a winch to lower equipment into the space.
Mechanical hazards (e.g. entanglement, crushing, cutting, etc.)	M	Isolate all plant within the space.
Skin contact with hazardous substances and surface contaminants	H	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear).
Slips and trips	M	Wear slip resistant boots.
Falls from height	VH	Wear a safety harness and remain connected to a lifeline at all times.
Electrical hazards	M	Portable electrical equipment should be protected through an RCD, located outside of the space.
Biological hazards (e.g. E-coli)	L	No action required.
Lack of lighting	H	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	L	No action required.

General Recommendations

- Avoid entering the confined space if possible e.g. conduct cleaning activities from outside etc.
- Ensure access to the confined space remains secure at all times.
- Only authorised personnel are to access the confined space.
- All works and access in relation to confined spaces must be undertaken in accordance with AS 2865-2009.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any persons entering the confined space.
- Ensure contractors are appropriately trained to undertake confined space entry and standby duties.
- Ensure site specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.
- Ensure contractor safe work method statement (SWMS) addresses working at heights issues.
- Ensure suitable PPE is available and appropriately maintained.
- Ensure a task specific risk assessment is conducted within the space prior to commencing any works.
- Although it was not possible to access the space at the time of the assessment, it has been deemed to be a confined space (in order to take a precautionary approach) and should continue to be treated as such until confirmed as otherwise.

Risk Assessment H: Fan Chamber	
Does the space meet the requirements of a Confined Space? (If the answer to A, B and at least one part of C is yes, then the space is a confined space and requires a risk assessment).	**YES**
A. Is the space designed or intended primarily not to be occupied by a person?	YES
B. Is the space designed or intended to be, at normal atmospheric pressure while any person is in the space?	YES
C. Is the space likely to be a risk to health and safety from: • an atmosphere that does not have a safe oxygen level? • contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion? • harmful concentrations of any airborne contaminants? • engulfment?	 YES NO YES NO

Works to be completed:	Maintenance and inspection activities.
Comments:	Access to space is restricted. No access gained during assessment.

Hazard Types	**Risk Rating**	**Recommended Actions**
Restricted entry and egress in an emergency	VH	Wear a safety harness and remain connected to a lifeline at all times. Ensure the standby person remains in constant contact with person(s) entering the space.
Oxygen deficiency whilst work in progress	VH	Monitor the atmosphere within the space prior to entering. Only enter the space if oxygen levels are within the safe range (19.5% to 23.5%). Ventilate the space if required. Continually monitor the atmosphere within the space during entry.
Build-up or excess of vapours such as hydrogen sulphide (H_2S) or carbon monoxide (CO) to concentrations above the workplace exposure standards (WES)	E	Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Continually monitor the atmosphere within the space during entry.
Build-up of organic vapours to within explosive limits	L	No action required.
Airborne dust concentrations above the WES	L	No action required.
Radiation (non-ionising and ionising)	L	No action required.
Noise generated at levels above 85 dB(A)	M	Isolate machinery. Wear appropriate PPE (e.g. hearing protection).
Uncontrolled introduction of substances (e.g. steam, water, gases etc.)	VH	Isolate all services within the space.
Engulfment	L	No action required.
Manual handling of covers, lowering equipment into pits	L	No action required.
Mechanical hazards (e.g. entanglement, crushing, cutting, etc.)	E	Isolate all plant/equipment in the space.

Hazard Types	Risk Rating	Recommended Actions
Skin contact with hazardous substances and surface contaminants	L	No action required.
Slips and trips	M	Wear slip resistant boots.
Falls from height	L	No action required.
Electrical hazards	M	Portable electrical equipment should be protected through an RCD, located outside of the space.
Biological hazards (e.g. E-coli)	L	No action required.
Lack of lighting	H	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	L	No action required.

General Recommendations

- Avoid entering the confined space if possible e.g. conduct cleaning activities from outside etc.
- Ensure access to the confined space remains secure at all times.
- Only authorised personnel are to access the confined space.
- All works and access in relation to confined spaces must be undertaken in accordance with AS 2865-2009.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any persons entering the confined space.
- Ensure contractors are appropriately trained to undertake confined space entry and standby duties.
- Ensure site specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.
- Ensure suitable PPE is available and appropriately maintained.
- Ensure a task specific risk assessment is conducted within the space prior to commencing any works.
- Although it was not possible to access the space at the time of the assessment, it has been deemed to be a confined space (in order to take a precautionary approach) and should continue to be treated as such until confirmed as otherwise.

Risk Assessment I: Sump Pump Pit	
Does the space meet the requirements of a Confined Space? (If the answer to A, B and at least one part of C is yes, then the space is a confined space and requires a risk assessment).	**YES**
A. Is the space designed or intended primarily not to be occupied by a person?	YES
B. Is the space designed or intended to be, at normal atmospheric pressure while any person is in the space?	YES
C. Is the space likely to be a risk to health and safety from:	
• an atmosphere that does not have a safe oxygen level?	YES
• contaminants, including airborne gases, vapours and dusts, that may cause injury from fire or explosion?	YES
• harmful concentrations of any airborne contaminants?	YES
• engulfment?	YES

Works to be completed:	Maintenance and inspection activities.
Comments:	Access to space is restricted. No access gained during assessment.

Hazard Types	Risk Rating	Recommended Actions
Restricted entry and egress in an emergency	E	Wear a safety harness and remain connected to a lifeline at all times. Ensure the standby person remains in constant contact with person(s) entering the space.
Oxygen deficiency whilst work in progress	E	Monitor the atmosphere within the space prior to entering. Only enter the space if oxygen levels are within the safe range (19.5% to 23.5%). Ventilate the space if required. Continually monitor the atmosphere within the space during entry.
Build-up or excess of vapours such as hydrogen sulphide (H_2S) or carbon monoxide (CO) to concentrations above the workplace exposure standards (WES)	E	Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Continually monitor the atmosphere within the space during entry.
Build-up of organic vapours to within explosive limits	VH	Monitor the atmosphere within the space prior to entering. Purge and ventilate the space if required. Only enter the space if the concentration of any flammable vapours is less than 5% of its lower explosive limit. Continually monitor the atmosphere within the space during entry. Ensure no ignition sources are located within or introduced into the space.
Airborne dust concentrations above the WES	L	No action required.
Radiation (non-ionising and ionising)	L	No action required.
Noise generated at levels above 85 dB(A)	M	Isolate machinery. Wear appropriate PPE (e.g. hearing protection)
Uncontrolled introduction of substances (e.g. steam, water, gases etc.)	E	Isolate all services within the space. Ensure no vehicles operate in the vicinity of the entry. Ensure the standby person is monitoring external weather conditions and any other factors that could impact the confined space.

Hazard Types	Risk Rating	Recommended Actions
Engulfment	E	Isolate all inflow pipes into the space. Wear a safety harness and remain connected to a lifeline at all times.
Manual handling of covers, lowering equipment into pits	M	Ensure a two-person lift or lifting device is used when lifting or removing covers. Use a winch to lower equipment into the space.
Mechanical hazards (e.g. entanglement, crushing, cutting, etc.)	M	Isolate all plant within the space.
Skin contact with hazardous substances and surface contaminants	H	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear).
Slips and trips	H	Wear slip resistant boots.
Falls from height	VH	Wear a safety harness and remain connected to a lifeline at all times.
Electrical hazards	M	Portable electrical equipment should be protected through an RCD, located outside of the space.
Biological hazards (e.g. E-coli)	H	Wear appropriate PPE (e.g. gloves, long sleeve shirt and pants, boots and eye wear). Wash hands and face after exiting the space.
Lack of lighting	H	Use appropriate and safe temporary lighting and/or torch within the space.
Heat and cold stress	L	No action required.

General Recommendations

- Avoid entering the confined space if possible e.g. conduct cleaning activities from outside etc.
- Ensure access to the confined space remains secure at all times.
- Only authorised personnel are to access the confined space.
- All works and access in relation to confined spaces must be undertaken in accordance with AS 2865-2009.
- Ensure that the person responsible for the confined space work issues an entry permit prior to any persons entering the confined space.
- Ensure contractors are appropriately trained to undertake confined space entry and standby duties.
- Ensure site specific emergency rescue procedures and equipment are available and readily accessible during any confined space work.
- Ensure contractor safe work method statement (SWMS) addresses traffic management and working at heights issues.
- Ensure suitable PPE is available and appropriately maintained.
- Ensure a task specific risk assessment is conducted within the space prior to commencing any works.
- Although it was not possible to access the space at the time of the assessment, it has been deemed to be a confined space (in order to take a precautionary approach) and should continue to be treated as such until confirmed as otherwise.

APPENDIX C: PHOTOGRAPHS

Photo 01. Cooling Tower Area, potable water tank.

Photo 02. Cooling Tower Area, water tank.

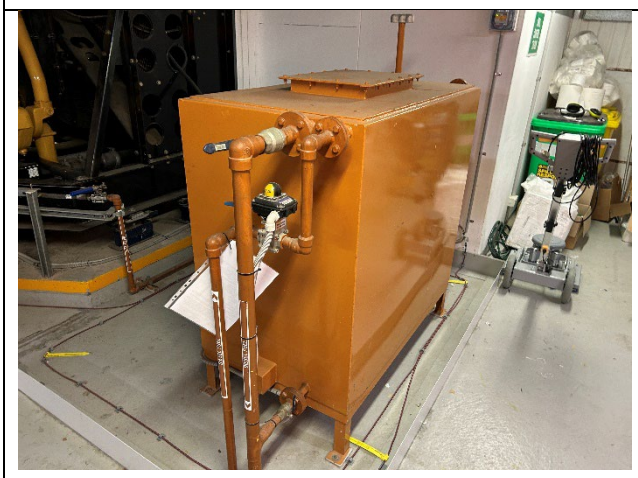


Photo 03. Level 32 Plant Room, diesel day tank.

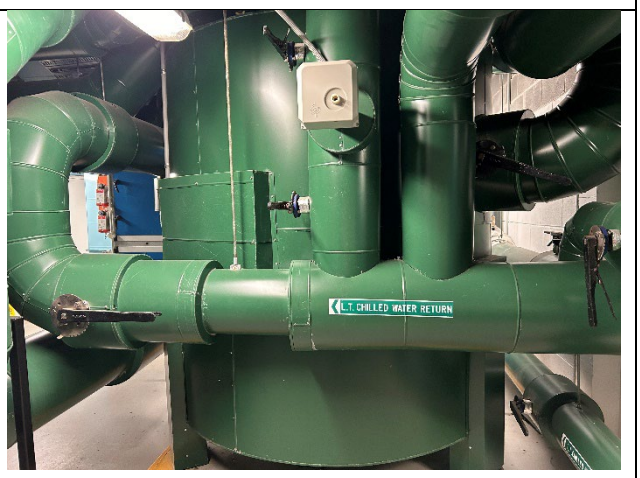


Photo 04. Level 30 Plant Room, chilled water tank.

Photo 05. Level 4 Plant Room, water tank.

Photo 06. Level 3 Plant Room, hydrant water tank.

Photo 07. Level 3 Plant Room, water tank.

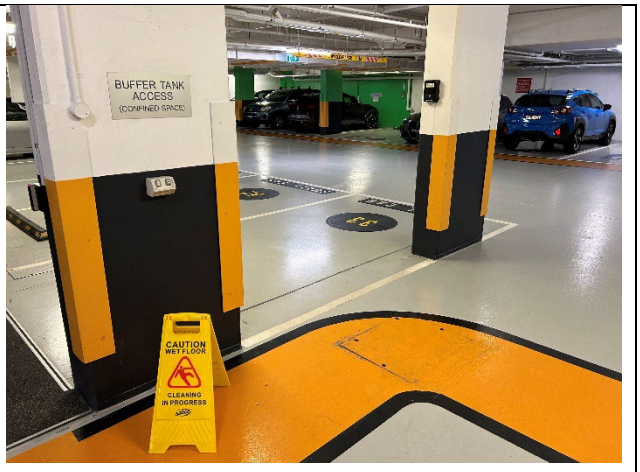


Photo 08. Level B2, carpark, adjacent space 33, buffer tank.

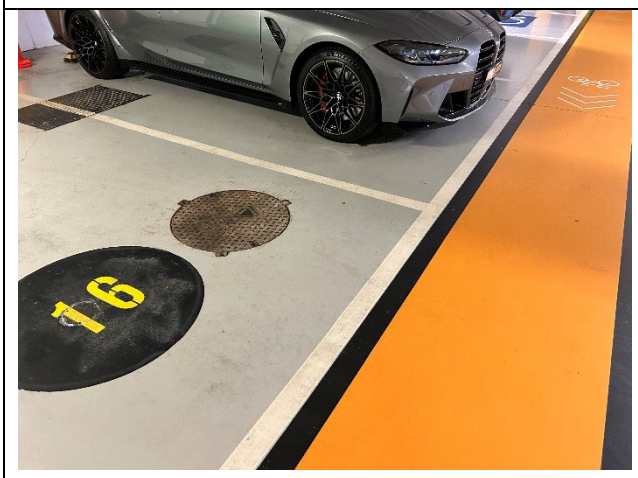


Photo 09. Level B2, carpark, adjacent spaces 15 and 16, grease traps x 2.

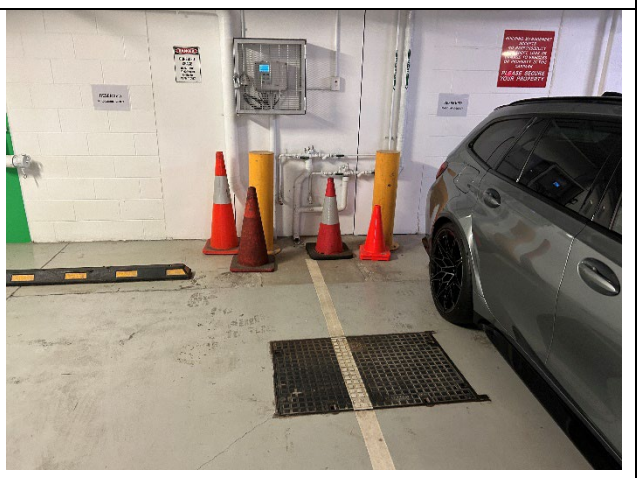


Photo 10. Level B2, carpark, adjacent spaces 15 and 16, sewer pit.

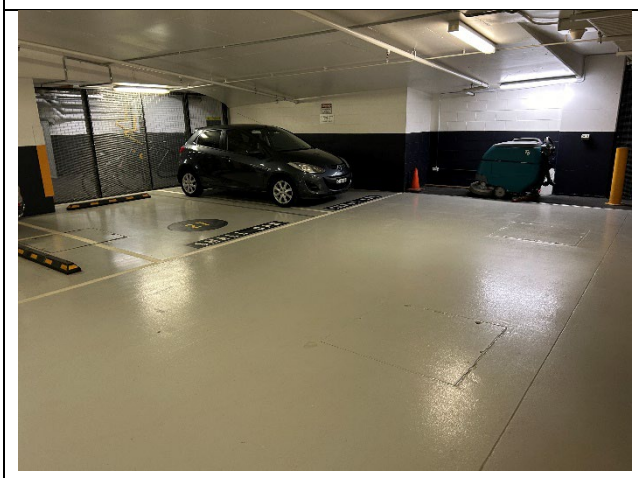


Photo 11. Level B2, carpark, adjacent spaces 24-28, underground sprinkler tank.

Photo 12. Level B2, carpark, adjacent space 32/33, unknown pit.

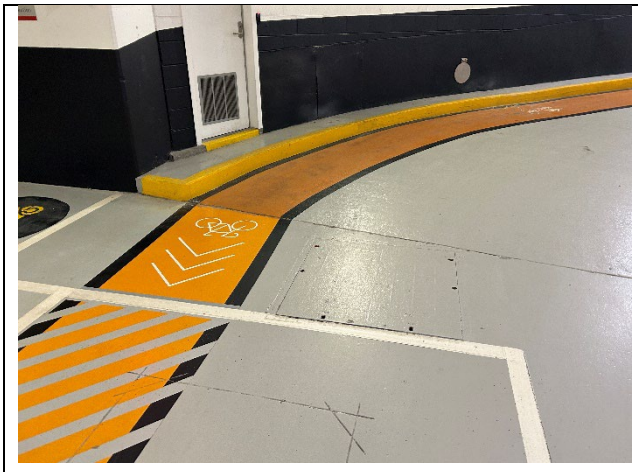


Photo 13. Level B2, carpark, adjacent ramp, unknown pit.

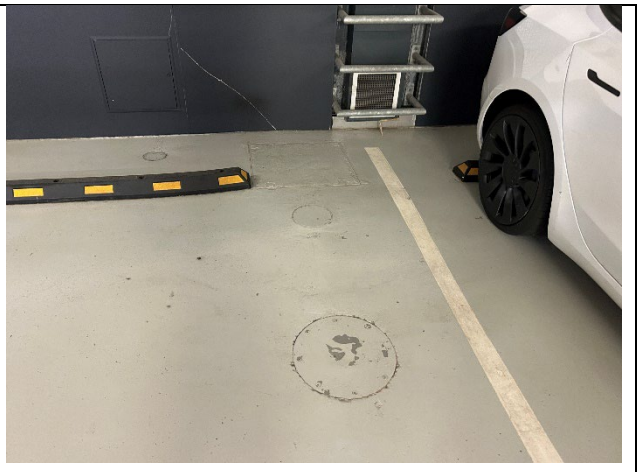


Photo 14. Level B2, carpark, space 8, unknown pit.

Photo 15. Level B2, Diesel Tank Room, diesel tank.

Photo 16. Level B2, Plant Room, carpark exhaust fan chamber.

Photo 17. Level B2, Stormwater Pump Room, water tank.

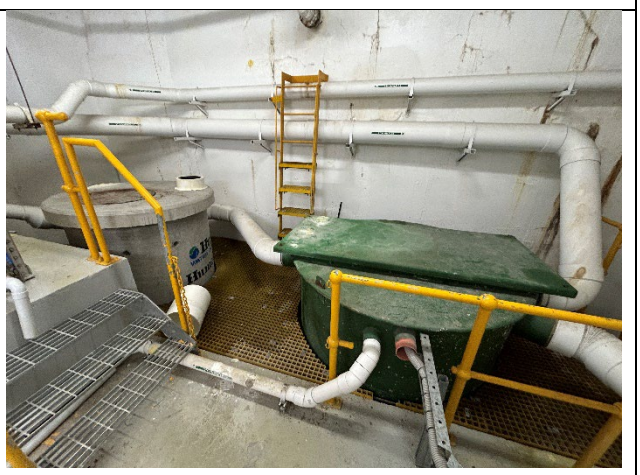


Photo 18. Level B2, Stormwater Pump Room, sump pump pits x 2.

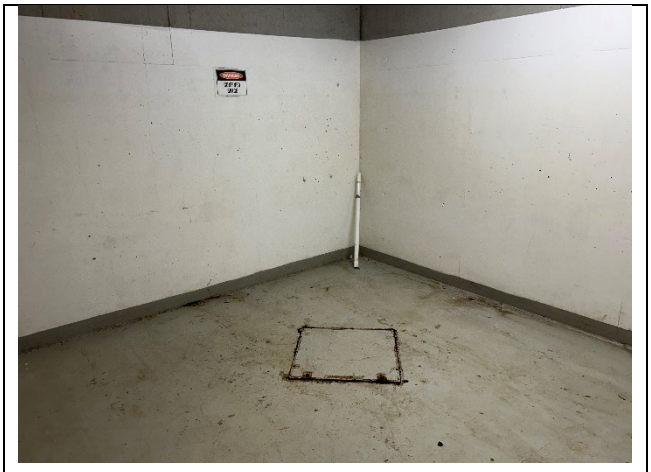


Photo 19. Level B3, Sprinkler Pump Room, unknown pit.

APPENDIX D: CONFINED SPACE SIGNAGE

Example A: Fixed confined space warning sign that can be established in a prominent position adjacent the confined space or on the access hatch.

Example B: Mobile confined space warning sign that can be established in a prominent position adjacent the confined space while works are in progress.